

TECHNICAL EXHIBIT
APPLICATION FOR FM CONSTRUCTION PERMIT
STEVEN L. GRADICK
BOWDON, GEORGIA
CH 288A 6 KW 100 M

Technical Specifications

Channel	288A
Frequency	105.5 MHz
Site coordinates	33° 28' 06" North Latitude 85° 18' 30" West Longitude
Site elevation above mean sea level	314 m
Average elevation above mean sea level of standard eight radials, 3-16 kilometers	301 m
Overall height of proposed antenna structure with beacon	
Above ground	91 m
Above mean sea level	405 m
Height of FM antenna radiation center	
Above ground	87 m
Above mean sea level	401 m
Above average terrain	100 m
Transmitter	*Continental, type 814B
Maximum rated power output	5 kW

*Or equivalent

Technical Specifications
Bowdon, Georgia

Figure 1
Sheet 2 of 2

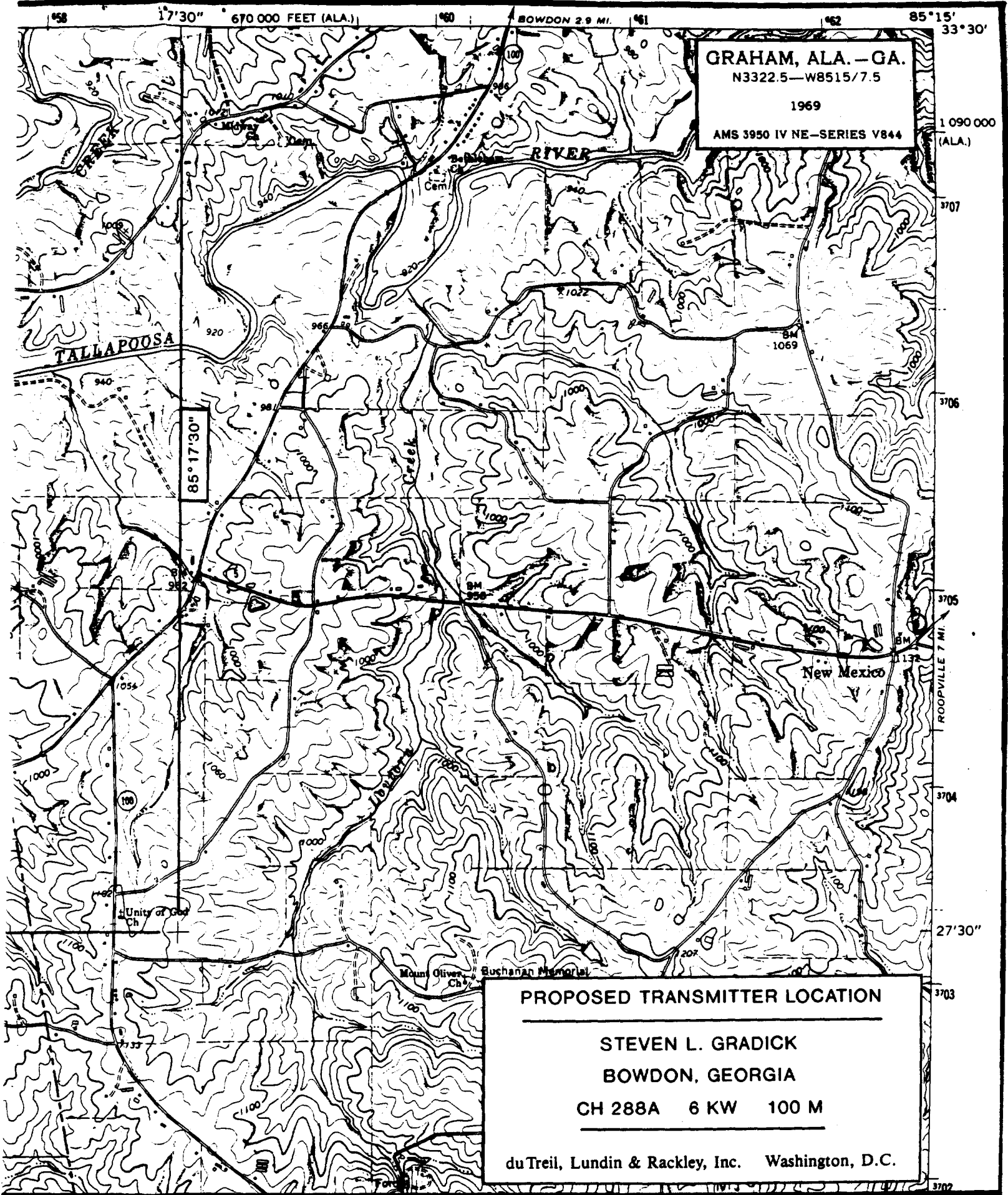
Transmission line	*Andrew, type HJ7-50A
Nominal diameter	4.13 cm (1-5/8 in)
Length	96 m
Efficiency (0.67 dB loss)	85.7%
Antenna	*Shively, type 6813
Number of bays	3
Input power rating	9 kW
Polarization	Circular
Power gain	
Horizontal polarization	1.55
Vertical polarization	1.55

Proposed Operation

Transmitter output power	4.52 kW
Transmission line loss	0.65 kW
Antenna input power	3.87 kW
Effective radiated power	
Circular polarization	6.0 kW

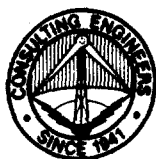
*Or equivalent

Figure 2



140 000 FEET (GA.) 20' R.12 E. R.13 E.

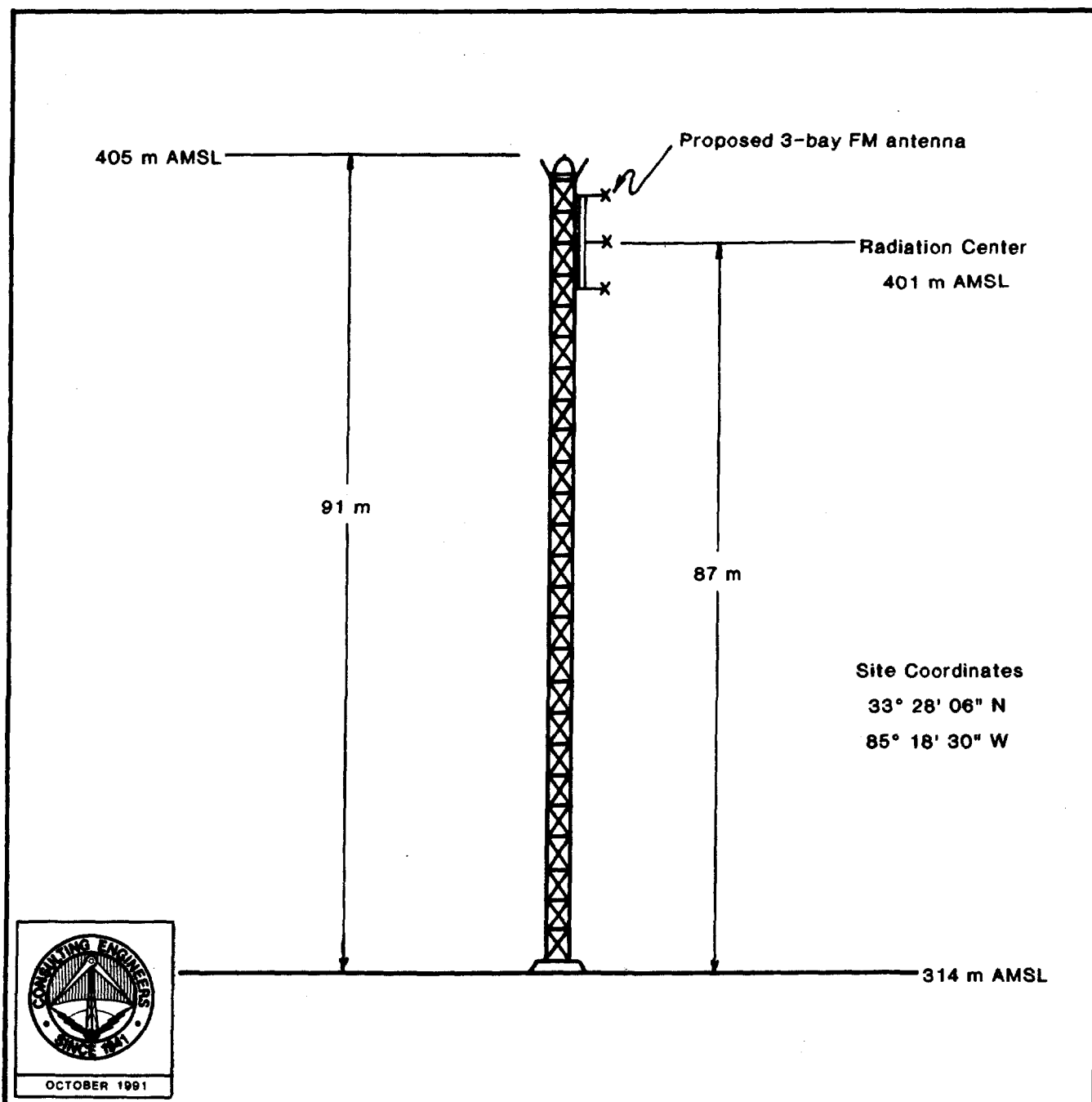
33° 30' 00" (BOWDON WEST)



OCTOBER 1991



Figure 3



PROPOSED ANTENNA AND SUPPORTING STRUCTURE

STEVEN L. GRADICK
BOWDON, GEORGIA
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du Treil, Lundin & Rackley, Inc. Washington, D.C.

Figure 4

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Tabulation of Average Elevations
and Distances to Coverage Contours

<u>Radial Bearing (deg. T.)</u>	<u>3-16 Kilometer Average Terrain Elevation (meters AMSL)</u>	<u>Antenna Height Above Average Terrain (meters)</u>	<u>Distance to Contour</u>	
			<u>70 dBu (km)</u>	<u>60 dBu (km)</u>
0	320	81	14.4	25.6
33*	291	110	17.1	29.6
45	293	108	16.9	29.4
90	298	103	16.4	28.6
135	317	84	14.7	26.1
180	334	67	13.2	23.6
225	266	135	19.0	32.4
270	292	109	17.0	29.4
315	<u>291</u>	<u>110</u>	17.1	29.5
Average	301	100		

*Radial through Bowdon -- not included in average.

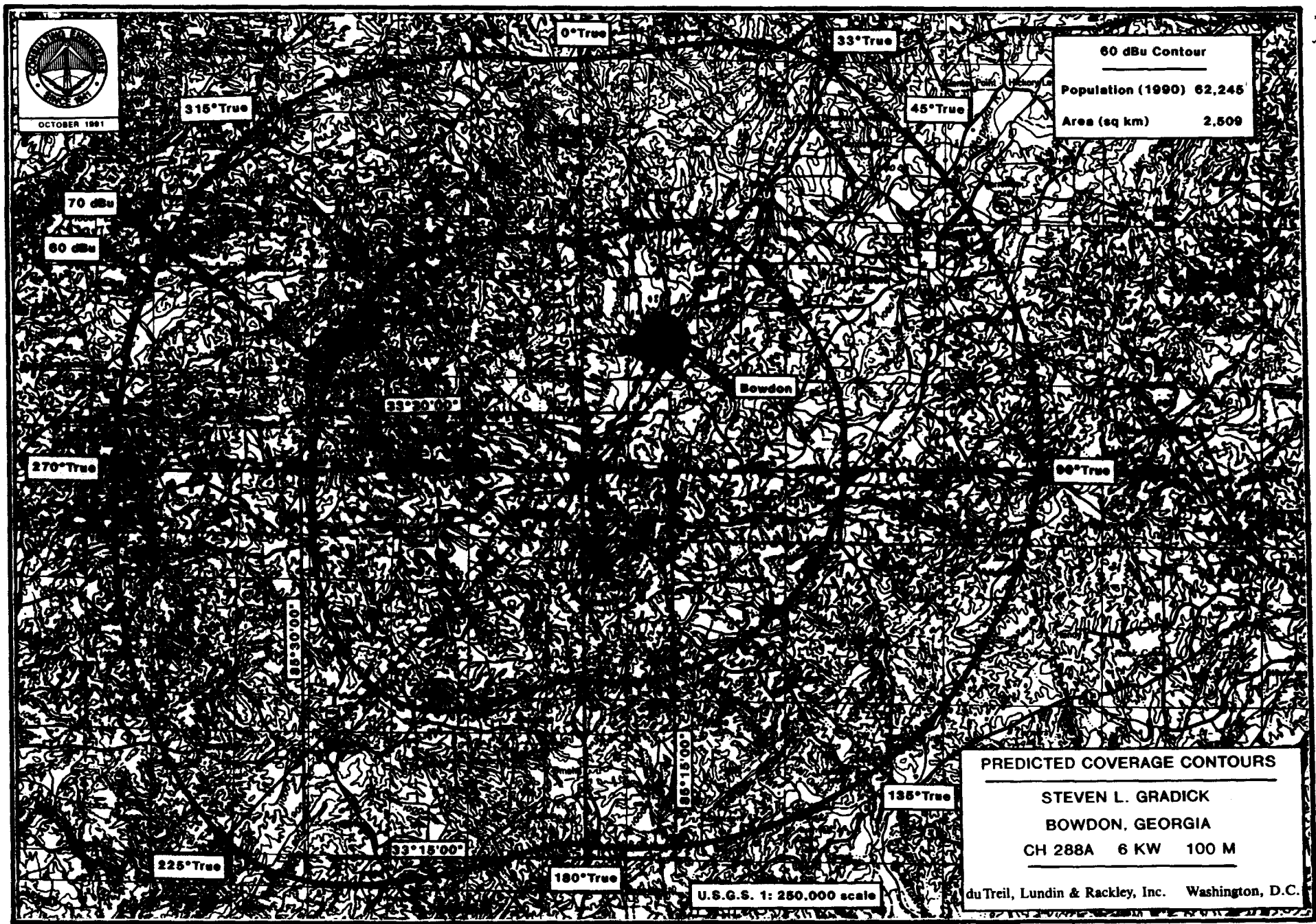


Figure 5

Figure 6

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Allocation Study

Job Title :Bowdon, Georgia

Separation Buffer 32 km

FCC DB Date : 09/24/91

Channel 288A (105.5 MHz)

Coordinates : 33-28-06 85-18-30

Call Status	City State	FCC File No.	Channel Freq.	ERP(kW) HAAT(m)	Latitude Longitude	Bearing deg-Tru	Dist. (km)	Req. (km)
WFXE APP	Columbus GA	BMLH900409KJ	285A 104.9	6.0 88.0	32-27-37 85-00-30	165.9	115.27	31
WQSB LIC	Albertville AL	BLH870224KC	286C 105.1	100. 305.0	34-09-27 86-02-44	318.6	102.49	95
WDENFM LIC	Macon GA	BLH811130AI	287C1 105.3	100. 201.0	32-53-48 83-32-05	110.6	177.16	133
WCHKFM LIC	Canton GA	BLH890523KB	289C2 105.7	50. 150.0	34-09-14 84-30-44	43.8	105.91	106/1
	From Channel 288A							
WZHT LIC	Troy AL	BLH821005AO	289C 105.7	100. 549.0	31-58-32 86-09-46	205.9	183.91	165
WSTHFM LIC	Alexander City AL	BLH860410KG	291C1 106.1	100. 299.0	32-45-33 85-28-04	190.7	80.05	75

/1Actual separation distance rounds to 106 kilometers.

SECTION VI - EQUAL EMPLOYMENT OPPORTUNITY PROGRAM

1. Does the applicant propose to employ five or more full-time employees?

☐ Yes ☒ No

If Yes, the applicant must include an EEO program called for in the separate Broadcast Equal Employment Opportunity Program Report (FCC 898-A).

SECTION VII - CERTIFICATIONS

1. Has or will the applicant comply with the public notice requirement of 47 C.F.R. Section 73.3580?

☒ Yes ☐ No

2. Has the applicant reasonable assurance, in good faith, that the site or structure proposed in Section V of this form, as the location of its transmitting antenna, will be available to the applicant for the applicant's intended purpose?

☒ Yes ☐ No

If No, attach as an Exhibit, a full explanation.

Exhibit No.
DNA

3. If reasonable assurance is not based on applicant's ownership of the proposed site or structure, applicant certifies that it has obtained such reasonable assurance by contacting the owner or person possessing control of the site or structure.

Name of Person Contacted Wayne Lovvorn

Telephone No. (include area code) (205) 568-9201

Person contacted: (check one box below)

☒ Owner ☐ Owner's Agent ☐ Other (specify)

The APPLICANT hereby waives any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended.)

The APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations, and that all exhibits are a material part hereof and incorporated herein.

The APPLICANT represents that this application is not filed for the purpose of impeding, obstructing, or delaying determination on any other application with which it may be in conflict.

In accordance with 47 C.F.R. Section 1.65, the APPLICANT has a continuing obligation to advise the Commission, through amendments, of any substantial and significant changes in information furnished.

**WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND IMPRISONMENT.
U.S. CODE, TITLE 18, SECTION 1001.**

I certify that the statements in this application are true and correct to the best of my knowledge and belief, and are made in good faith.

Name of Applicant STEVEN L. GRADICK	Signature <i>Steven L. Gradick</i>
Date October <u>28</u> , 1991	Title Owner

**FCC NOTICE TO INDIVIDUALS REQUIRED BY THE PRIVACY ACT
AND THE PAPERWORK REDUCTION ACT**

The solicitation of personal information requested in this application is authorized by the Communications Act of 1934, as amended. The principal purpose for which the information will be used is to determine if the benefit requested is consistent with the public interest. The staff, consisting variously of attorneys, analysts, engineers and applications examiners, will use the information to determine whether the application should be granted, denied, dismissed, or designated for hearing. If all the information is not provided, the application may be returned without action having been taken upon it or its processing may be delayed while a request is made to provide the missing information. Accordingly, every effort should be made to provide all necessary information. Your response is required to obtain the requested authority.

Public reporting burden for this collection of information is estimated to vary from 71 hours 45 minutes to 301 hours 30 minutes with an average of 118 hours 28 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, can be sent to the Federal Communications Commission, Office of Managing Director, Washington, D.C. 20554, and to the Office of Management and Budget, Paperwork Reduction Project (3060-0027), Washington, D.C. 20503.

THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 93-579, DECEMBER 31, 1974, 5 U.S.C. 552a(e)(3), AND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 96-511, DECEMBER 11, 1980, 44 U.S.C. 3507.